

# Thermal & Optical Bi-spectrum Network Positioning System Camera

#### TIC7626EL-GAF75-4X56-VH1





#### **Features**

- Thermal & Deficient of the Company of
- Passive infrared thermal imaging, meet the requirement of concealed monitoring and not affected by bad weather condition such as fog, smoke, rain, snow and night etc.
- Thermal channel supports fire detection, optical channel can link to the fire position and zoom in, more accurate to judge fire situation
- Thermal or visible channel support smart intrusion prevention based on deep learning algorithm: cross line, enter area, leave area, intrusion, support smart tracking
- Optical channel supports 4MP@60fps ,which has the smoother motion image
- Optical channel supports Gyroscope stabilization for stable picture
- Optical channel supports heat wave reduction which can reduce heat wave phenomenon and improve image quality
- Vari-focal laser:800m(2624.7ft) distance, proportional to optical zoom of camera module
- Rain-sensing auto wiper ,provide clear image in harsh weather
- Support 1/1 audio in/out, 7/2 alarm in/out, 1 Serial port RS485
- Power supply: DC 48V±25%, DC 24V±15%, AC 24V±25%
- IP66

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## Specifications

Channel	Optical	Thermal	
Camera			
Sensor	1/1.8" CMOS	Vanadium oxide uncooled focal plane arrays	
Min. Illumination	Colour : 0.0003lux(F1.2, AGC ON)  B/W : 0.0001lux(F1.2, AGC ON)  0 Lux with Laser	N/A	
Pixel Size	N/A	12 um	
NETD	≤ 40 mk@F1.0@25 °C		
Shutter	Auto/Manual, 1 to 1/100000 s		
WDR	120 dB		
S/N	>52 dB		
Lens	Lens		
Focal Length	6 ~ 336 mm	75mm	
Optical Zoom	56X	N/A	
Iris	F1.2 to F4.6		
Field of View (H)	57.9°∼ 1.6°	6.1°	
Field of View (V)	34.6°∼ 0.9°	4.8° 7.2°	
Field of View (D)	71.2°~ 1.9°		
DORI			
DORI Distance (Detect)	155.5m(510.1ft)~4829.4m(15844.5ft)	N/A	
DORI Distance (Observe)	62.2m(204.0ft)~1931.8m(6337.8ft)	N/A	
DORI Distance (Recognize)	31.1m(102.0ft)~965.9m(3168.9ft)	N/A	
DORI Distance (Identify)	15.5m(51.0ft)~482.9m(1584.4ft)	N/A	
Illuminator	lluminator		
Illumination Distance (IR)	Up to 800m(2624.7ft)	N/A	
Video	Video		
Video Resolution	Main Stream: 4MP (2688×1520): Max.60fps; Sub Stream: 2MP (1920×1080): Max.60fps; Third Stream: D1(720 x 576): Max.60fps;	1080P(1920*1080), Max.30fps	
Video Compression	mpression Ultra 265, H.265, H.264, MJPEG		





Video Bit Rate	128 Kbps to 16 Mbps		
U-code	Support		
ROI	Support		
Video Stream	Triple Streams		
OSD	Up to 8 OSDs		
Privacy Mask	24 areas, up to 8 areas per scene N/A		
Image			
White Balance	Auto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2  N/A		
Digital Noise Reduction	2D/3D DNR		
Flip	Normal, Flip Vertical, Flip Horizontal, 180°		
Defog	Digital Defog, Optical Defog	N/A	
Low Illumination Characteristics	ColorHunter with Wise-ISP		
Intelligent			
Smart Intrusion Prevention	Cross line detection, intrusion detection, enter area detection, leave area detection (support false alarm filtering and the classification of human and vehicle)		
Smoke and Fire Detection	Support N/A		
Auto Tracking	Support tracking targets automatically, capturing deta	ailed information at a distance	
Events			
Fire Detection	N/A Support		
Basic Detection	Motion Detection, Tampering Alarm, Audio Detection  N/A		
General Function	Watermark, IP Address Filtering, Access Policy, ARP Protection, RTSP Authentication, User Authentication, HTTP Authentication, Alarm Input, Alarm Output		
Audio			
Audio Compression	G.711U, G.711A		
Audio Bitrate	128 Kbps		
Two-way Audio	Support		
Sampling Rate	16KHZ		
Storage	torage		
Edge Storage	Micro SD, up to 512 GB		

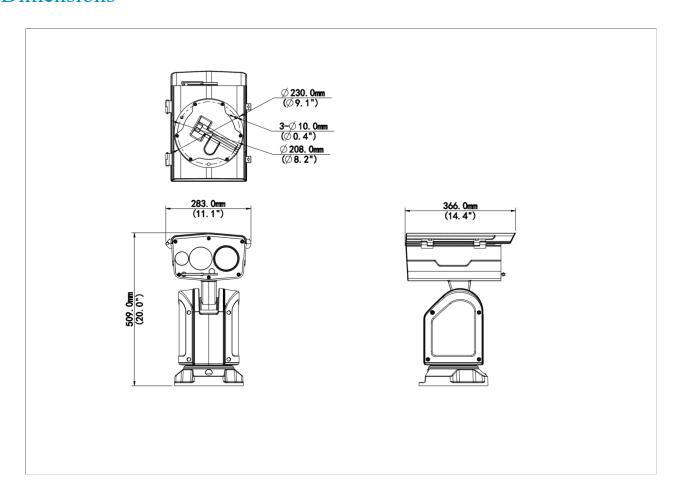


Network Storage	ANR, NAS (NFS)		
PTZ			
Pan Range	360° (endless)		
Pan Speed	0.02°/s ~ 140°/s		
Tilt Range	-90° ~ 45°		
Tilt Speed	0.02° ~ 50°/s		
Number of Presets	1024		
Preset Image Freeze	Support		
Home Position	Support		
Number of Presets (IPC)	1024		
3D Location	Support		
Number of Patrol	16		
Interface			
Audio I/O	1 Input: impedance 1 kΩ, amplitude 2.5 V [p-p], 1 Output: impedance 600 Ω, amplitude 2 V [p-p]		
Alarm I/O	7/2		
Serial Port	1 channel RS485 interface		
Network	1 × RJ45 10 M/100 M/1000 M Base-TX Ethernet + 1 × 100 M/1000 M SFP		
Video Output	N/A 1 BNC (For debugging)		
General	eral		
Power	DC 48V±25%, DC 24V±15%, AC 24V±25%		
Power Consumption	Max 135W		
Power Interface	Wires with cold-pressed terminal		
Dimensions	366 x 283 x 509 mm (14.4" x 11.1" x 20.0")(L x W x H)		
Weight	17.98kg(39.64lb)		
Working Environment	-40 °C to 70 °C (-40 °F to 158 °F), Humidity: ≤ 95% RH (non-condensing)		
Storage Environment	-40 °C to 70 °C (-40 °F to 158 °F), Humidity: ≤95% RH (non-condensing)		
Surge Protection	6 KV		
Reset Button	Support		
RTC	Support		
Certification			
Protection	IP66		



Live View	
OSD Font	Vector
OSD Character Number	40

## **Dimensions**



## Accessories

TR-WM08-B

Wall Mounting Bracket for Explosion -proof Pan-Tilt





### **DRI** Description

The optimal detection, recognition, and identification distances are calculated according to Johnson's Criteria.

Detection Range: In order to distinguish an object from the background, the object must be covered by 1.5 or more pixels.

Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the object must be covered by 6 or more pixels.

Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.

#### DRI Range Table

	Detection Range ( Vehicles: 4.0 × 1.4 a)	Detection Range ( Humans:1.8 × 0.5 m)		Recognition Range (Humans: 1.8 × 0. 5 m)	<u> </u>	Identification Range (Hu mans: 1.8 × 0.5 m)
8	385m	3248m	2096m	812m	1398m	541m

#### Smart Function Table(Thermal)

SIP Detection Range (Vehicles:4.0 $\times$ 1.4 m )	SIP Detection Range (Humans:1.8 × 0.5 m)	Fire Detection Range (target: 2 x 2 m)	
1300	550	4500m	

#### Notes

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